

FIG. 1

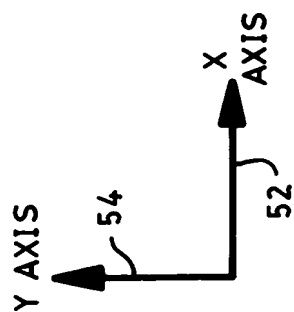


FIG. 3 is a schematic diagram of a mechanical assembly, showing a central circular component (18) with concentric circles (32) and (36). The assembly is mounted on a base (60) and includes a lever arm (62) pivoted at (64). A spring (46) is connected to the lever arm at (50) and (48). A cam mechanism (70) is shown on the right, with a cam follower (72) and a cam (74). A vertical actuator (24) is connected to the lever arm at (25) and (60). A horizontal actuator (36) is connected to the lever arm at (68) and (37). A coordinate system is shown at the bottom right, with the Y AXIS (54) and X AXIS (52).

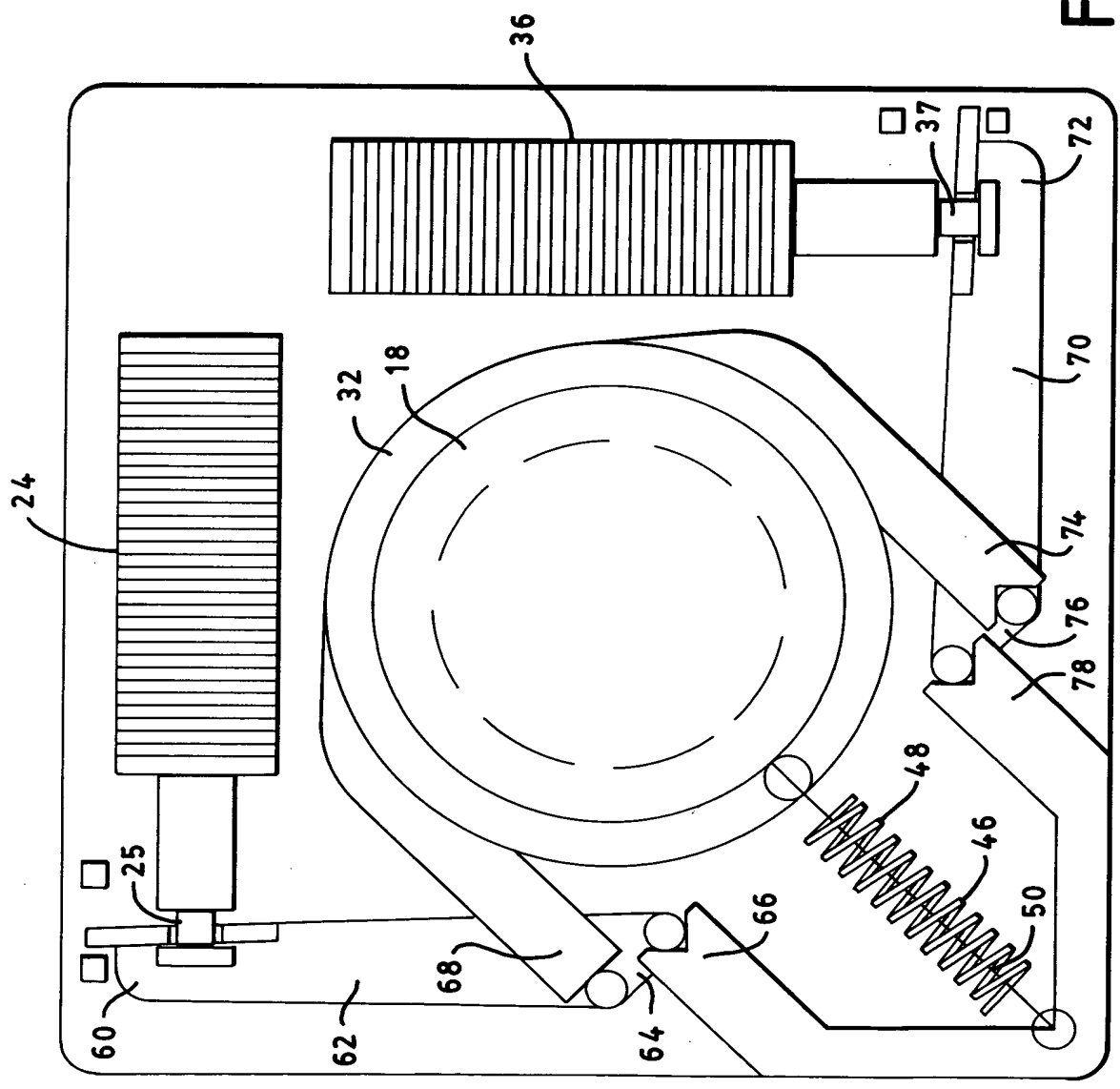


FIG. 3

FIG. 4 is a schematic diagram of a system for measuring the position of a target 21 on a grid 20. The system includes a camera 12, a target 21, a grid 20, a coordinate system 52, and a measurement unit 14. The camera 12 is positioned to capture an image of the target 21 on the grid 20. The coordinate system 52 is defined by the X and Y axes. The measurement unit 14 is used to determine the position of the target 21 on the grid 20.

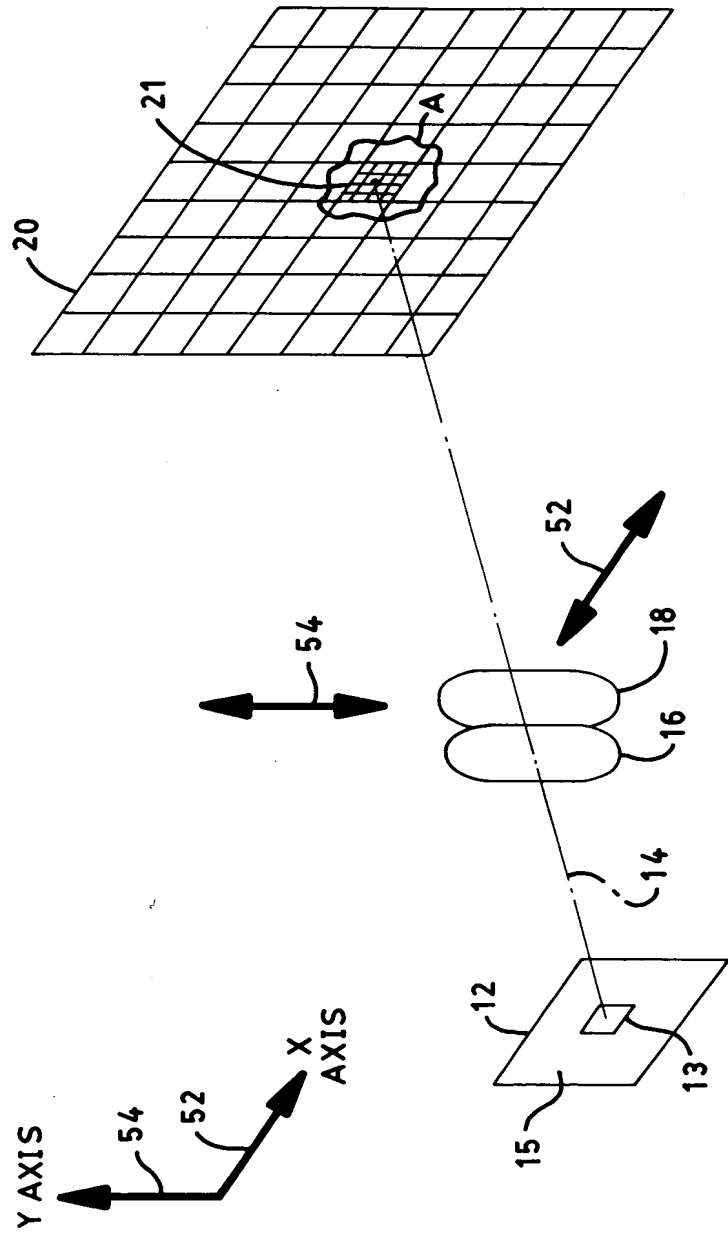


FIG. 4

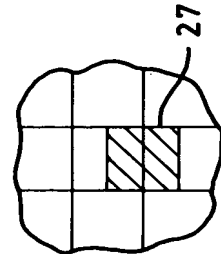
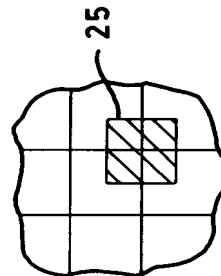
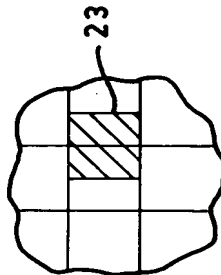
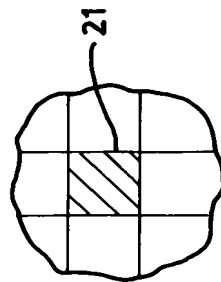
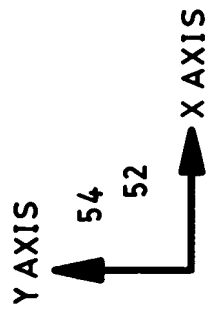


FIG. 5A

FIG. 5B

FIG. 5C

FIG. 5D